Sheet 1 of 2 Application Number 10/734698 Docket Number (Optional) Form PTO-1449 09/424 (Reproduced) **BB087** Applicant INFORMATION DISCLOSURE CITATION LYNN M. ABELL ET AL. IN AN APPLICATION Filing Date Group Art Unit (Use several sheets if necessary) **DECEMBER 2, 1999** UNKNOWN **U. S. PATENT DOCUMENTS** FILING DATE EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS IF APPROPRIATE INITIA 8/13/96 435 5,545,545 Gengenbach, et al 172.3 9/19/95 Matthews, et al 435 190 5,451,516 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER CLASS TRANSLATION CLASS YES NO WO 96/01905 01/25/96 **PCT** C12N15 82 WO 96/38574 12/05/96 **PCT** C12N15 82 0485970A2 11/13/91 82 European C12N15 WO 97/07665 03/06/97 00 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Hein, J. J. (1990) Meth. Enz. 183:626-645 Bieleski et al. (1996) Anal. Biochem. 17:278-293 Farkas et al. (1965) J. Biol. Chem. 240:4717-4722 Cremer et al. (1988) J. Gen. Microbiol. 134:3221-3229 Giovanelli et al. (1984) Plant Physiol. 76:285-292 Curien et al. (1996) FEBS Lett. 390:85-90 Tomova et al. (1968) Biochemistry (USSR) 33:200-208 Dougall (1970) Phytochemistry 9:959-964 Mudd (1960) Biochim. Biophys. Acta 38:354-355 Boerjan et al. (1994) Plant Cell 6:1401-1414 Feng, et al, EMBL Sequence Data Library, XP002078204, 10 May 1997 Saito, et al, "Modulation of Cystein Biosynthesis in Chloroplasts of Transgenic Tobacco Overexpressing

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Cysteine Synthase [O-Acetylserine(thiol)-lyase]", Plant Physiology, 106, 1996, 887-895,

to Toxic Levels of Hydrogen Sulphide Gas", The Plant Journal (1993), 4, No. 5, 759-769

EXAMINER

Youssefian, et al, "Tobacco Plants Transformed with the O-acetylserine (thiol) lyaseGene of Wheat are Resistant

DATE CONSIDERED

| Sheet 2 of 2 Number 10 134 698 09/424,978 | | | | | | | | | |
|---|----------------------------|-------------|--|--|--|--|--|--|--|
| Jnit 1 | 649 | | | | | | | | |
| ASS | FILING DATE IF APPROPRIATE | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ۲ SS | TRANS | ATION NO | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | L | | | | | | | | |
| nethio | onine Ser | nsitive | | | | | | | |
| s in F | Response | to Salt | | | | | | | |

| INFORMATION DISCLOSURE CITATION (Its remark about (Insecurity)) Thing that DECEMBER 2, 1999 U. S. PATENT DOCUMENTS U. S. PATENT DOCUMENTS U. S. PATENT DOCUMENTS SUBCLASS FILING DATE AMME CLASS SUBCLASS FILING DATE PATEOPRIATE PATEOPRIATE DOCUMENT NUMBER DATE COUNTRY CLASS CLASS SUB- TRANSLATION CLASS TO THE TOCUMENTS CLASS TRANSLATION CLASS TO THE TOCUMENTS TO TH | Form PTO-1449 (Reproduced) | • | Docket Number (Optional) BB1087 | | | Application Number 101734698 | | | | |
|--|-----------------------------------|---|---|--|-----------------|---------------------------------------|--|--|--|--|
| TIN AN APPLICATION (**Research**) Fallon** Fallon** December 2, 1999 1649 | , • | N | | DDIOG | | 03/424,378 | | | | |
| EXAMORE DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FLUNDATE PAPEROPRIATE FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS CLASS SUBCLASS TRANSLATION CLASS TO THE PAPEROPRIATE NO CLASS TO THE PAPEROPRIATE NUMBER DATE COUNTRY CLASS TO THE PAPEROPRIATE NO CLASS TO THE PAPEROPRIATE | Eve | | | | | | FALCO, | ET AL | | |
| CURIENT DOCUMENT NUMBER DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FLUNC DATE | (Use several sheets if necessary) | | | | | | | | | |
| EXAMER DOCUMENT NUMBER PATE NAME CLASS SUBCLASS FLOR DATE FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUB- CLASS SUB- CLASS NO CLASS NO TRANSLATION VES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Tralliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | · | | | | | <u> 1999 </u> | | 1649 | |
| FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUB- TRANSLATION CLASS YES NO | FYAMINER | · | T | ATENT DO | | 18 | 1 | T | FILING | DATE |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | DOCUMENT NUMBER | DATE | | NAME | | CLASS | SUBCLASS | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | i | | | • | | | 1 | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | i i | | • | | | | 1 | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | · · · · · · · · · · · · · · · · · · · | | | · · · · | | | · · | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | · | | <u> </u> | | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | 1 ' 1 | | | - | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | · | - | | · · · · · · | | | | } —— | . |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | , | | 1 | ٠ | • | | | | 1 | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | <u> </u> | | FOREIGN | PATENT | DOCUM | ENTS | <u> </u> | <u> </u> | 1 | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Curien, et al, "Characterization of an Aabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | DOCUMENT NUMBER | | | | | CLASS | | | LATION |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | | | | | | CLASS | YES | NO |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | | | | | | | | ł |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | ÷ | | | | | | | | - |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | | | • | | | | | |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | | | | | | | | |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | | | | | | | 1 | |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | • | | | | | | | | |
| Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethionine Sensitive Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | | L | | | | | | | |
| Threonine Synthase", EMBL Sequence Data Library, XP002078253, 26 July 1996 Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | OTHER D | OCUMENTS | (Including Au | thor, Title, Do | ate, Pertinen | t Pages, Et | c.) | | |
| Espartero, et al, "Differential Accumulation of S-adenosylmethionine Synthetase Transcripts in Response to Salt Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | ന്ന | Curien, et al, "Characterization of an Arabidopsis Thaliana cDNA Encoding an S-adenosylmethic | | | | | | | onine Se | nsitive |
| Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | [CAA | I hreonine Synthase | , EMBL Sequenc | e Data Libro | ту, XP0020 | 178 253 , 26 | July 1996 | | | |
| Stress", EMBL Sequence Data Library, XP002078254, 23 November 1993 Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | • | Espartero, et al. "Dit | ferential Accumu | lation of S-a | denosylmet | hionine Sv | thetase T | ranscripts in 1 | Pernonce | to Salt |
| Schwartz, et al, EMBL Sequence Data Library, XP002078255, 8 June 1996 | | Stress", EMBL Sequ | ence Data Librar | y, XP0020 7 | 8254, 23 No | vember 199 | 93 | anseripts III | Kesponse | to sait |
| | | | | | • | | | | | |
| EXAMINER DATE CONSIDERED | | Schwartz, et al, EMI | BL Sequence Date | a Library, X | P002078255 | 5, 8 June 19 | 96 | | | • |
| EXAMINER DATE CONSIDERED | \ \ \ | | | • | | | | | | |
| EXAMINER DATE CONSIDERED | | | | · | | | | <u> </u> | | |
| EXAMINER DATE CONSIDERED | | | · | | | | | | | <u> </u> |
| EXAMINER DATE CONSIDERED | | | | | | | <u> </u> | | | |
| EXAMINER DATE CONSIDERED | | · | | | | • | | | | |
| EXAMINER DATE CONSIDERED | | | | | | · · · · · · · · · · · · · · · · · · · | | | m | |
| EXAMINER DATE CONSIDERED | | | | | | | | | | |
| EXAMINER DATE CONSIDERED | 1 | - | | | · | | | | | |
| EXAMINER DATE CONSIDERED | | | | | | | | | | |
| EXAMINER DATE CONSIDERED | <u> </u> | | , | | • | | | | | |
| | EXAMINER | |) (| D. | ATE CONSIDER | ED [| | • | | |

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.